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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,784	03/05/2002	Kimio Tatsuno	520.41386X00	8829
20457	7590 08/14/2003	·		
ANTONELLI, TERRY, STOUT & KRAUS, LLP 1300 NORTH SEVENTEENTH STREET SUITE 18700			EXAMINER	
			SCOTT JR, LEON	
ARLINGTON, VA 22209-9889			ART UNIT	PAPER NUMBER
			2828	
			DATE MAILED: 08/14/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N .	Applicant(s)
	10/087,784	TATSUNO ET AL.
Office Action Summary	Examin r	Art Unit
·	Leon Scott, Jr.	2828
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Responsive to communication(s) filed on		
,—-	is action is non-final.	
3) Since this application is in condition for allowated in accordance with the practice under	ance except for formal matters, pr	
Disposition of Claims 4) ☐ Claim(s) 1-13 is/are pending in the application		
4a) Of the above claim(s) is/are withdray		
5) Claim(s) is/are allowed.	WIT HOM GOMGICOLOM	
6)⊠ Claim(s) <u>1-13</u> is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) are subject to restriction and/o	r election requirement.	
Application Papers	•	
9) The specification is objected to by the Examine	r.	
10)☐ The drawing(s) filed on is/are: a)☐ accept	oted or b) objected to by the Exa	miner.
Applicant may not request that any objection to the		
11)☐ The proposed drawing correction filed on	_ is: a)☐ approved b)☐ disappro	oved by the Examiner.
If approved, corrected drawings are required in re	•	
12) The oath or declaration is objected to by the Ex	aminer.	
Priority under 35 U.S.C. §§ 119 and 120		
13)⊠ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	ı)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:		
1. Certified copies of the priority document		
2. Certified copies of the priority document		
3. Copies of the certified copies of the priorapplication from the International Bu* See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119(e) (to a provisional application).
 a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domest 	* *	and/or 121.
Attachment(s)	<u></u>	ட்டிn Scott, Jr. Primary Examiner
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	y (PTO-413) Paper No(s) Patent Application (PTO-152)
S. Patent and Trademark Office		

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The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-13 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

First it is pointed out to applicants that some of the rejections cited below have their basis in an improper use of idiomatic(English) expressions, thereby rendering the claims indefinite. Applicants are hereby advised that should this problem not be addressed, it may result in claims which can not be properly examined and/or searched.

In line 2 of claim 2 how is the light from the light source <u>made</u> to pass through an etalon as a first <u>ray bundle</u>, no structure sufficient to produce a <u>ray bundle</u> has been recited; claim 1 is indefinite and incomplete. Line 2 of claim 1 expresses a desired result while failing to recite the structure and/or means-plus-function necessary to produce the light from the laser source; claim 1 is indefinite and incomplete. In line 4 of claim 1 it is not clear what the <u>function</u> of the <u>first photo-detection means</u> is, thus the format of the photo-detection means does not conform with the <u>means-plus-function format</u> of para. 6 and is this indefinite and incomplete. The <u>second photo-detection means</u> in line 6 of claim 1 may be criticized in a like manner as the <u>first ph to-detection means</u>. In line 5 of claim 1 it i a umed that the at least the other part of the outg ing light i the remaining part f the outgoing

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light. It is not clear h w the light is guided to a s c nd ph todetection means as a second ray bundle; and since no structure sufficient to produce a ray bundle or guided light has been recited; claim 1 is indefinite and incomplete. In lines 8 and 9 of claim 1 nothing has been recited which will maintain the oscillating frequency at a specific value. What structure does this; claim 1 is indefinite and incomplete. The recitation on the basis of a differential signal is indefinite and incomplete since it is not clear what the structure is that produces said signal. It is not clear in lines 12 and 13 of claim 1 whether the two plate materials of the etalon are made of the same or different materials, further how they are made: claim 1 is indefinite and incomplete. In: lines 14 and 15 of claim 1 and lines 3 and 4 of claims 3 and 4' what is the optical characteristic that transmits the ray bundle; further it is not clear that any and all characteristics can transmit, much less transmit a ray bundle; claims 1,3 and 4 are indefinite and incomplete. Lines 16-18 of claim 1 are confusing. Lines 18-21 are alternative in scope in that the embodiments claimed vary the scope of the invention. It is not clear within the context of claim language in line 26 of claim 1 how the inboard beam structure connectively relates to the device as a whole; claim 1 is indefinite and incomplete. In lines 30 and 31 of claim 1 it is not clear if the solid material of the media plate refers to the first or the second media plates or both; further the recitation the media plate is made of is indefinite in that made of is a method limitation, thus it is not clear what applicant is relying upon to carry the claim the method or apparatus. In line 2 of claims 3 and 4 the recitation the structure lacks a clear antecedent basis. In line 5 of claim 1 and throughout claim 1 use of the term ends is not clear. The recitations: the multiple interference region in lines 9 and 10 of claim 1 and line 4 of claim 6; the multiple interference regions in lines 10 and 11 of claim 4; the semiconductor laser in line 2 of claims 9 and 12; and the condensing lens in lines 2 and 3 of claim 11 all lack a clear antecedent ba i . In line 5 and 6 f claim 8, it not clear within the c nt xt of claim language h w the ray bundl is made t pass through the tal n to be guided; what i

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th structure that p rform th function; claim 8 i ind finite and incomplete. In line 3 of claim 9 what is the structure which condenses the outgoing light; claim 9 is indefinite and incomplete. In line 3 of claim 13 the recitation capable of is indefinite.

Colbourne et al (5,798,859) is cited for its teaching of a method and device for wavelength locking.

Kleinschmidt et al (6,553,050) is cited for its teaching of a laser having an output coupling interferometer.

Watterson et al (6,526,079) is cited for its teaching of a single etalon optical wavelength reference devise.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leon Scott, Jr. whose telephone number is 703-308-4884. The examiner can normally be reached on Monday - Friday, 6:30am - 5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul P. Ip can be reached on (703)308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7721 for regular communications and 703-308-2864 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-306-3431. Application/C ntrol Numb r: 10/087,784
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Leon Scott, Jr. Primary Examiner
Art Unit 2828

lsjr August 6, 2003